
SPECIFIC ELECTRICAL CONDUCTANCE 6.3

Electrical conductance is a measure of the capacity of water (or other media) to conduct an electrical current. Electrical conductance of water is a function of the types and quantities of dissolved substances in water, but there is no universal linear relation between total dissolved substances and conductivity.

The USGS reports conductivity in microsiemens per centimeter at 25 degrees Celsius ($\mu\text{S}/\text{cm}$ at 25°C). The method described in this section for measuring conductivity is applicable to surface water and ground water, from fresh to saline.

Specific electrical conductance (conductivity): a measure of the electrical conductance of a substance normalized to unit length and unit cross section at a specified temperature.
